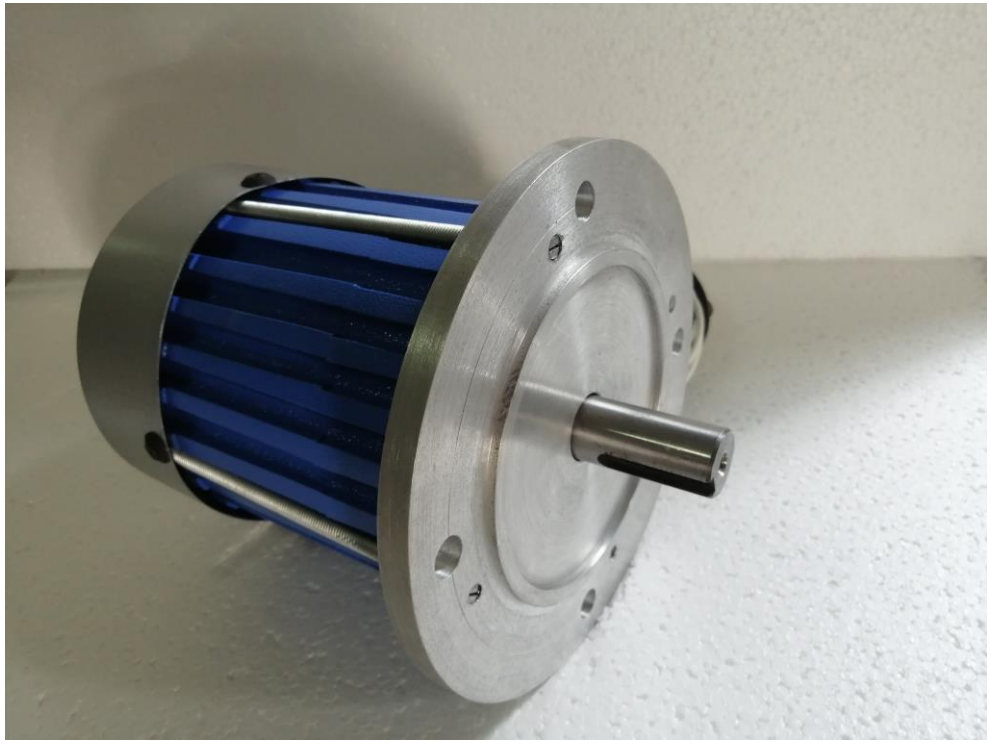
1.0 KW - 1500 RPM BLDC MOTOR SPECIFICATIONS



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JR120–1000W-1500RPM

Highlights

- ✓ 48VDC, 1000Watts (Input), 1500 RPM Brushless DC Motor
- ✓ In-runner with shaft output and keyway
- ✓ External Control
- ✓ Built in Hall Sensors with Hall Effect Angle of 120 degrees
- ✓ Operating temperature up to +80^{o}C (Also available up to +150^{o}C)
- ✓ 1 year warranty on motor against any manufacturing defects
- ✓ Made in India

Specifications

Parameter	Value
Rated Voltage	48VDC
Rated Current	25 A
Rated Power (Output)	1000 Watts
Rated Speed (RPM)	1500 RPM
Rated Torque (Nm)	6.4 Nm
No Load Current (A)	2.25 A
No Load RPM	1800 RPM
Current Density (A/square mm)	5.6 A/square mm
Variable Speed Range	0-2000 RPM
Motor Mounting	Flange / Face only
Frame Size	IEC90B5*
Motor Diameter	160 mm
Motor Length (ML)	200 mm (With cooling fan)
Shaft Diameter	24 mm
Shaft Length	50 mm
Finish	Powder Coated
Weight	9.45 Kgs (Approximate)

Note: Please allow 1 mm tolerance for all external motor dimensions

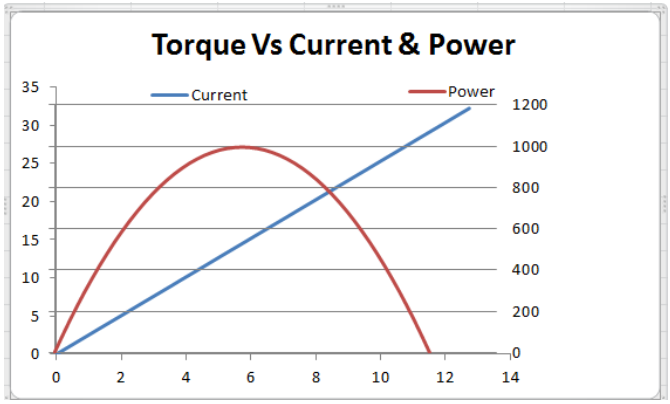
***Note:**

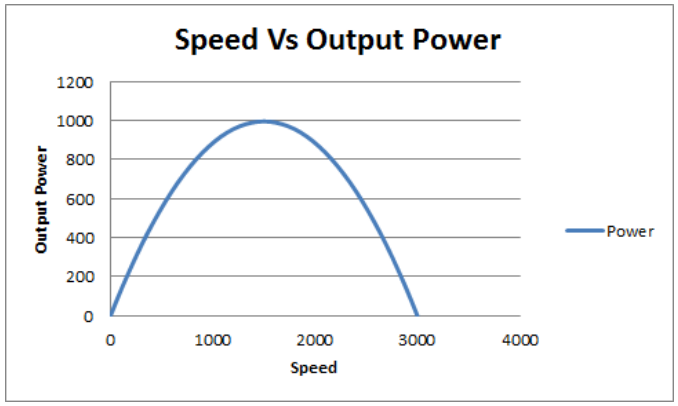
The following IEC frame sizes are also available

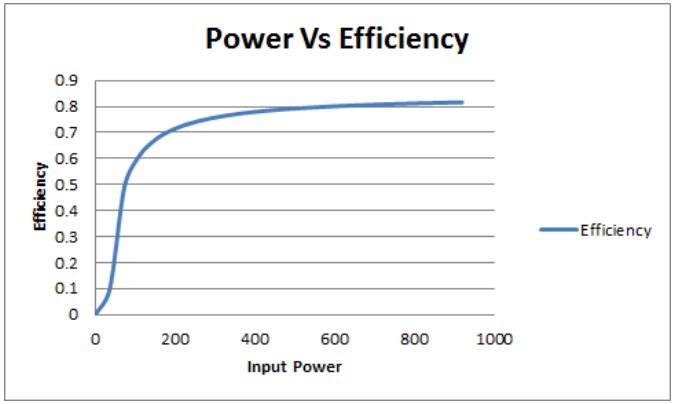
i) IEC 71B14 with 14 mm shaft
ii) IEC 80B5 with 19 mm shaft
iii) IEC 80B14 with 19 mm shaft
iv) IEC 90B5 with 24 mm shaft

Please refer to the drawings for exact dimensions and specify the frame size while ordering.

Performance Curves*







Note: Values shown are theoretically derived using formulas and may vary from actuals.

Dimensions IEC Format

IR120 Series

Scale 1:4 Units: mm

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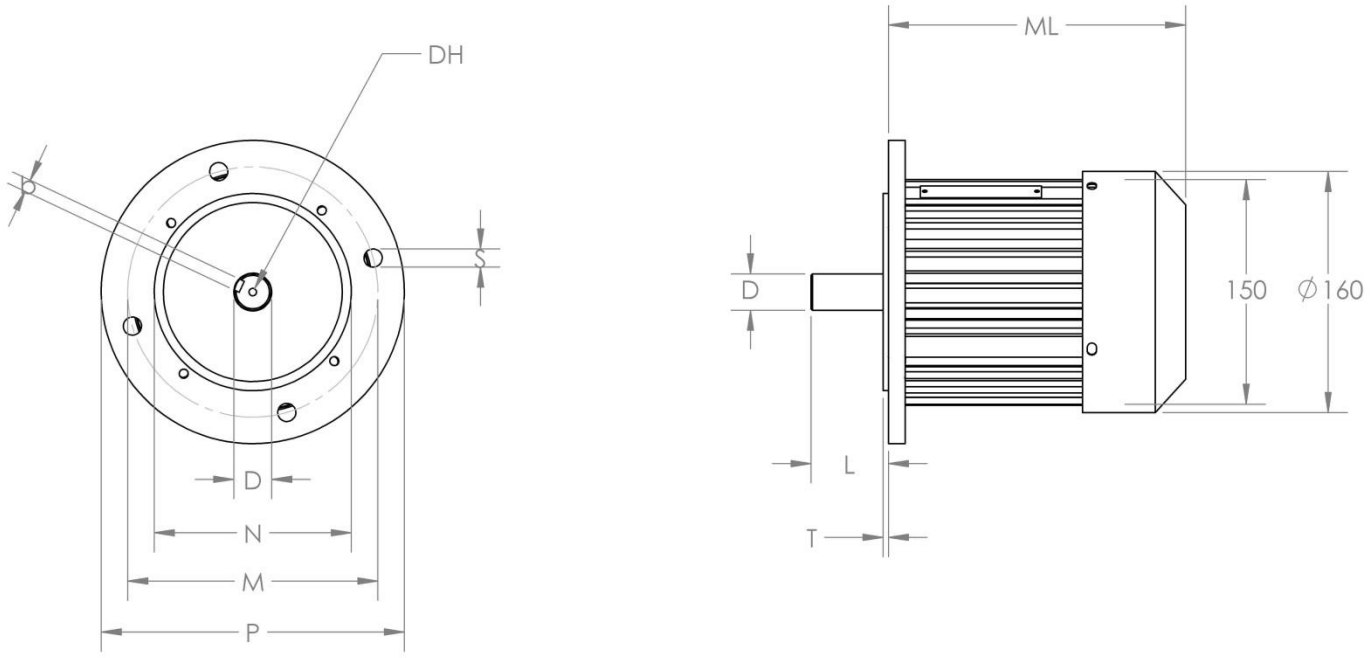
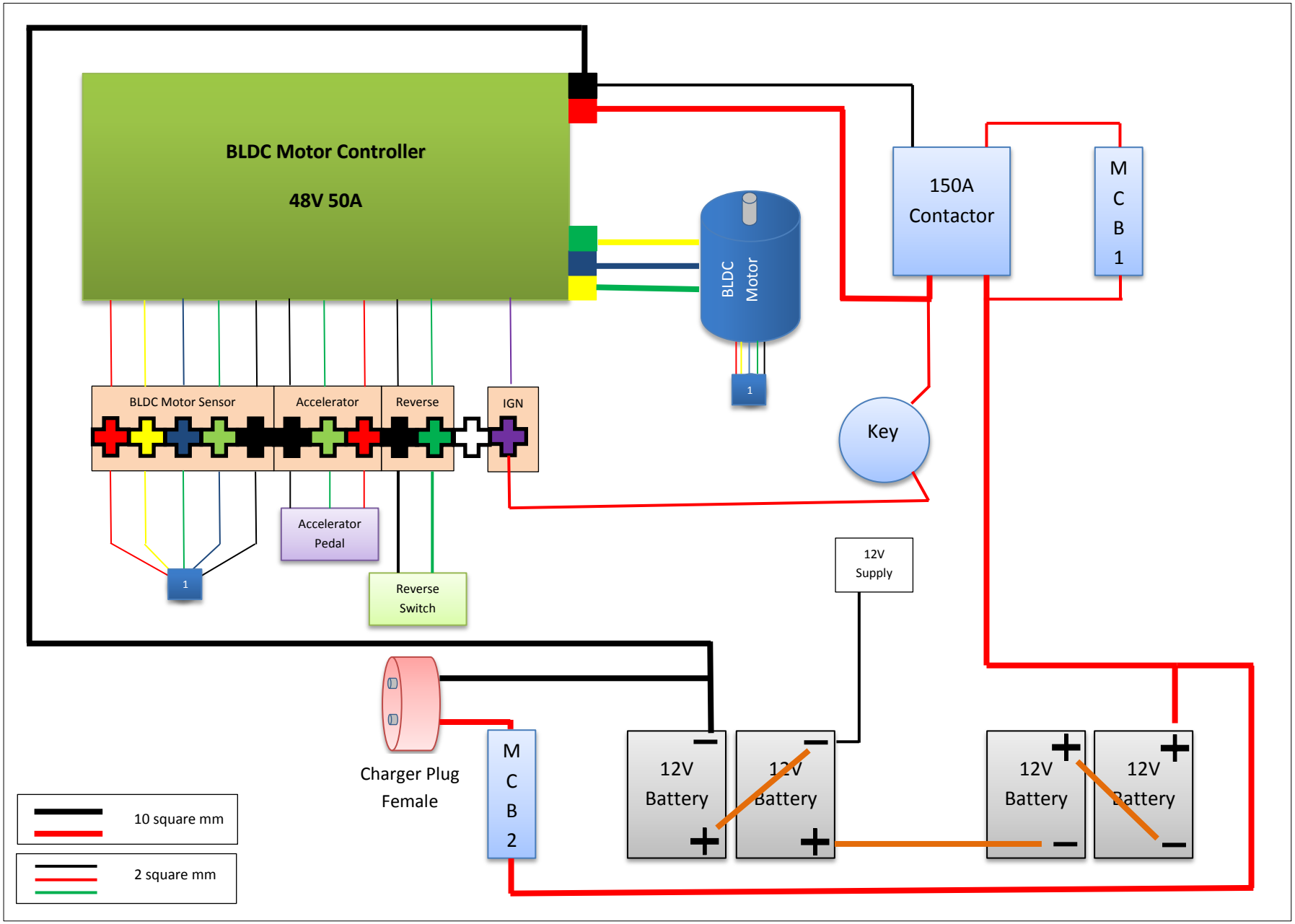


IEC	D	b	L	DH	P	M	N	S	T
71B14	14	5	30	M5 x 12.5	165	85	70	M6 x 9	2.5
80B5	19	6	40	M6 x 16	200	165	130	11	3.5
80B14	19	6	40	M6 x 16	165	100	80	M6 x 9	3.0
90B5	24	8	50	M8 x 19	200	165	130	11	3.5

Wiring Diagram



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